

FIG. 2

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*FIG. 3A*

ATGGATATTCTTTGTGAAGAAAATACTTCTTTGAGCTCAACTACGAACTCCCTAATGCAATTA  
AATGATGACAACAGGCTCTACAGTAATGACTTTAACTCCGGAGAAGCTAACACTTCTGATGCA  
TTTAACTGGACAGTCGACTCTGAAAATCGAACCAACCTTTCTGTGAAGGGTGCCTCTCACCG  
TCGTGTCTCTCCTTACTTCATCTCCAGGAAAAAACTGGTCTGCTTTACTGACAGCCGTAGTGA  
TTATTCTAACTATTGCTGGAAACATACTCGTCATCATGGCAGTGTCCCTAGAGAAAAAGCTGC  
AGAATGCCACCAACTATTTCTGTATGTCCTTGCCATAGCTGATATGCTGCTGGGTTTCTTGT  
CATGCCCCGTGTCATGTTAACCATCCTGTATGGGTACCGGTGGCCTCTGCCGAGCAAGCTTTGT  
GCAGTCTGGATTACCTGGACGTGCTTCTCTCCACGGCCTCCATCATGCACCTCTGCGCCATCT  
CGCTGGACCGCTACGTGCGCATCCAGAATCCCATCCACCACAGCCGCTTCAACTCCAGAACTA  
AGGCATTTCTGAAAATCATTGCTGTTTGGACCATATCAGTAGGTATATCCATGCCAATACCAG  
TCTTTGGGCTACAGGACGATTCTGAAGGTCTTTAAGGAGGGGAGTTGCTTACTCGCCGATGATA  
ACTTTGTCCTGATCGGCTCTTTTGTGTCATTTTTCATTCCCTTAACCATCATGGTGATCACCTAC  
TTTCTAACTATCAAGTCACTCCAGAAAGAAGCTACTTTGTGTGTAAGTGATCTTGGCACACGG  
GCCAAATTAGCTTCTTTTCAGCTTCTCCCTCAGAGTTCTTTGTCTTCAGAAAAGCTTCTCCAGC  
GGTCGATCCATAGGGAGCCAGGGTCTACACAGGCAGGAGGACTATGCAGTCCATCAGCAAT  
GAGCAAAAGGCATGCAAGGTGCTGGGCATCGTCTTCTTCTGTTTGTGGTGATGTGGTGCCT  
TTCTTCATCACAAACATCATGGCCGTATCTGCAAAGAGTCTGCAATGAGGATGTCATTGGG  
GCCCTGCTCAATGTGTTTGTGTTGGATCGGTTATCTCTTTCAGCAGTCAACCCACTAGTCTACA  
CACTGTTCAACAAGACCTATAGGTCAGCCTTTTCACGGTATATTCAGTGTCAGTACAAGGAAA  
ACAAAAAACCATTGCAGTTAATTTTAGTGAACACAATACCGGCTTTGGCCTACAAGTCTAGCC  
AACTTCAAATGGGACAAAAAAGAATTCAAAGCAAGATGCCAAGACAACAGATAATGACTGC  
TCAATGGTTGCTCTAGGAAAGCAGTATTCTGAAGAGGCTTCTAAAGACAATAGCGACGGAGT  
GAATGAAAAGGTGAGCTGTGTGTGA

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*FIG. 3B*

MDILCEENTSLSSTTNSLMQLNDDNRLYSNDFNSGEANTSDAFNWTVDSENRTNLSCEGCLSPSCL  
SLLHLQEKNEWSALLTAVVILTIAGNILVIMAVSLEKKLQNAATNYFLMSLAADMLLGFLVMPVSM  
LTILYGYRWPLPSKLCVWYLDVLFSTASIMHLCALSLDRYVAIQNPIHHSRFSNRTKAFLKIAVW  
TISVGISMPIPVFGLQDDSKVFKEGSCLLADDNFVLIGSFVSFFIPLTMVITYFLTIKSLQKEATLCVS  
DLGTRAKLASFSFLPQSSLSSEKLFQRSIHREPGSYTGRRTMQSISNEQKACKVLGIVFFLFVVMWC  
PFFITNMAVICKESCNEVDIGALLNVFVWIGYLSSAVNPLVYTILFNKTYRSAFSRYIQCYKENKK  
PLQLILVNTIPALAYKSSQLQMGQKKNSKQDAKTTDNDCSMVALGKQYSEEASKDNSDGVNEKV  
SCV

*FIG. 4B*

MVNLRNAVHSFLVHLIGLLVWQCDISVSPVAAIVTDIFNTSDGGRFKFPDGVQNWPAISIVIIIMTIGGN  
LVIMAVSMEKKLHNATNYFLMSLAADMLVGLLVMPISLLAILDYVWPLPRYLCPVWISLDVLFSTASI  
MHLCAISLDRYVAIRNPIEHSRFSNRTKAIMKIAVWALSIGVSVPVIGLRDEEKVFVNNTTCVLNDPN  
FVLIGSFVAFFIPLTMVITYCLTIYVLRQALMLLHGHTTEPPGLSLDFLKCKRNTAEENSANPNQDQ  
NARRRKKKERRPRGTMQAINNERKASKVLGIVFFVFLMWCPFFITNLSVLCEKSCNQKMEKLLNVFVW  
IGYVCSGINPLVYTILFNKTYRRAFSNYLRCNYKVEKKPPVRQIPRVAATALS GRELVNNTYRHTNEPVIEK  
ASDNEPGIEMQVENLELPVNPSSVVSERISSV

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*FIG. 4A*

ATGGTGAACCTGAGGAATGCGGTGCATTCATTCCTTGTGCACCTAATTGGCCTATTGGTTTGGC  
AATGTGATATTTCTGTGAGCCCAGTAGCAGCTATAGTAACTGACATTTCAATACCTCCGATG  
GTGGACGCTTCAAATTCCCAGACGGGGTACAAAACCTGCCAGCACTTTCAATCGTCATCATAA  
TAATCATGACAATAGGTGGCAACATCCTTGTGATCATGGCAGTAAGCATGGAAGAAAGAACTG  
CACAATGCCACCAATTACTTCTTAATGTCCCTAGCCATTGCTGATATGCTAGTGGGACTACTTG  
TCATGCCCCGTGCTCTCCTGGCAATCCTTTATGATTATGTCTGGCCACTACCTAGATATTTGTG  
CCCCGTCTGGATTTCCTTTAGATGTTTTATTTTCAACAGCGTCCATCATGCACCTCTGCGCTATAT  
CGCTGGATCGGTATGTAGCAATACGTAATCCTATTGAGCATAGCCGTTTCAATTGCGGACTA  
AGGCCATCATGAAGATTGCTATTGTTTGGGCAATTTCTATAGGTGTATCAGTTCCTATCCCTGT  
GATTGGACTGAGGGACGAAGAAAAGGTGTCGTGAACAACACGACGTGCGTGCTCAACGACC  
CAAATTCGTTCTTATTGGGTCCTTCGTAGCTTTCTTCATACCGCTGACGATTATGGTGATTAC  
GTATTGCCTGACCATCTACGTTCTGCGCCGACAAGCTTTGATGTTACTGCACGGCCACACCGA  
GGAACCGCCTGGAATAAGTCTGGATTTCCTGAAGTGCTGCAAGAGGAATACGGCCGAGGAAG  
AGAACTCTGCAAAACCTAACCAGACCAGAACGCACGCCGAAGAAAGAAGAAGGAGAGACC  
TCCTAGGGGCACCATGCAGGCTATCAACAATGAAAGAAAAGCTTCGAAAGTCCTTGGGATTG  
TTTTCTTTGTGTTTCTGATCATGTGGTGCCCATTTTTCATTACCAATATTCTGTCTGTTCTTTGTG  
AGAAGTCCTGTAACCAAAAAGCTCATGGAAAAGCTTCTGAATGTTGTTTGGATTGGCTAG  
TTTGTTACAGGAATCAATCCTCTGGTGTATACTCTGTTCACAAAATTTACCGAAGGGCATTCTC  
CAACTATTTGCGTTGCAATTATAAGGTAGAGAAAAAGCCTCCTGTCAGGCAGATTCCAAGAGT  
TGCCGCCACTGCTTTGTCTGGGAGGGAGCTTAATGTTAACATTTATCGGCATACCAATGAACC  
GGTGATCGAGAAAGCCAGTGACAATGAGCCCGGTATAGAGATGCAAGTTGAGAAATTTAGAGT  
TACCAGTAAATCCCTCCAGTGTTAGCGAAAGGATTAGCAGTGTGTGA

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*FIG. 5A*

ATGGTGAACCTGAGGAATGCGGTGCATTCATTCCTTGTGCACCTAATTGGCCTATTGGTTTGGCAAT  
GTGATATTTCTGTGAGCCCAGTAGCAGCTATAGTAACTGACATTTTCAATACCTCCGATGGTGGACG  
CTTCAAATTCCCAGACGGGGTACAAAAGTGGCCAGCACTTTCATCGTCATCATAATAATCATGAC  
AATAGGTCGCAACATCCTTGTGATCATGGCAGTAAGCATGGAAAAGAACTGCACAATGCCACCA  
ATTACTTCTTAATGTCCCTAGCCATTGCTGATATGCTAGTGGGACTACTTGTATGCCCCGTCTCTCTC  
CTGGCAATCCTTTATGATTATGTCTGGCCATCAACTAGATATTTGTGCCCGTCTGGATTCTTTAGA  
TGTTTTATTTTCAACAGCGTCCATCATGCACCTCTGCGCTATATCGCTGGATCGGTATGTAGCAATA  
CGTAATTCTATTGAGCATAGCCGTTTCAATTCGCGGACTAAGGCCATCATGAAGATTGCTATTGTTT  
GGGCAATTTCTATAGGTGTATCAGTTCCTATCCCTGTGATTGGACTGAGGGACGAAGAAAAGGTGT  
TCGTGAACAACACGACGTGCGTGCTCAACGACCCAAATTTGCTTCTTATTGGGTCTTCGTAGCTTT  
CTTCATACCGCTGACGATTATGGTGATTACGTATTGCCTGACCATCTACGTTCTGCGCCGACAAGCT  
TTGATGTTACTGCACGGCCACACCGAGGAACCGCCTGGACTAAGTCTGTATTTCTGAACTGCTGC  
AAGAGGAATACGGCCGAGGAAGAGAACTCTGCAAACCCTAACCAAGACCAGAACGCACGCCGAA  
GAAAGAAGAAGGAGAGACGTCTAGGGGCACCATGCAGGCTATCAACAATGAAAGAAAAGCTAA  
GAAAGTCCTTGGGATTGTTTTCTTTGTGTTTCTGATCATGTGGTGCCCATTTTTCATTACCAATATTC  
TGTCTGTTCTTTGTGAGAAGTCCTGTAACCAAAAAGCTCATGAAAAGCTCTGAATGTGTTTGTGTTG  
GATTGGCTATGTTTGTTCAGGATTCAATCCTCTGGTGTATACTCTGTTCACAAAATTTACCGAAGG  
GCATTCTCCAATATTTGCGTTGCAATTATAAGGTAGAGAAAAAGCCCTCCTGTCAGGCAGATTCCA  
AGAGTTGCCGCCACTGCTTTGTCTGGGAGGGAGCTTATTGTTAACATTTATCGGCATACCAATGAA  
CCGGTGATCGAGAAAGCCAGTGACAATGAGCCCGGTATAGAGATGCAAGTTGAGAATTTAGAGTT  
ACCAGTAAATCCCTCCAGTGTGGTTAGCGAAAGGATTAGCAGTGTGTGA

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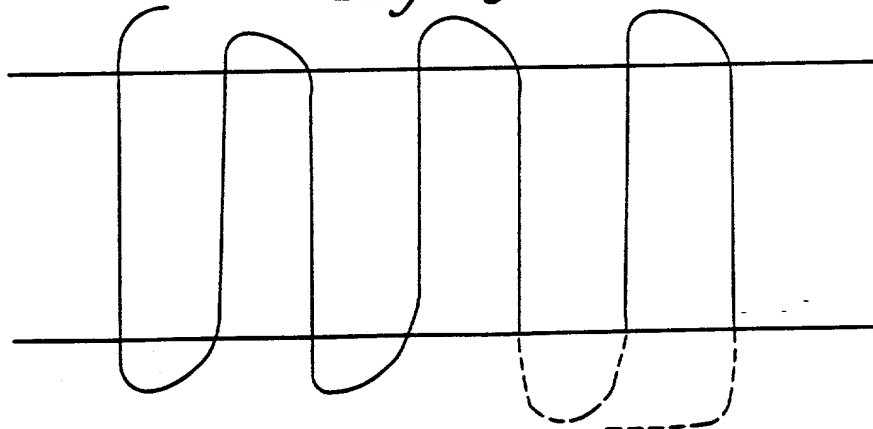
*FIG. 5B*

MVNLRNAVHSFLVHLIGLLVWQCDSVSPVAAIVTDIFNTSDGGRFKFPDGVQNWPAISIVIIIMTI  
GGNILVIMAVSMEKKLHNATNYFLMSLAIADMLVGLLVMPISLLAILDYVWPLPRYLCPVWISL  
DVLSTASIMHLCAISLDYVAIRNPIEHSRFSRSTKAIMKIAIWAISIGVSVPIPVIGLRDEEKV  
NNTTCVLNDPNFVLIGSFVAFFIPLTMVITYCLTTYVLRQALMLLHGHTTEPPGLSDFLKCKCRN  
TAEENSANPNQDQNAARRRKKKERRPRGTMQAINNERKAKKVLGIVFFVFLMWCPFFITNLSVL  
CEKSCNQKLMKLLNVFVWIGYVCSGINPLVYTLFNKIYRRAFSNYLRCNYKVEKKPPVRQIPRV  
AATALSGRENLVNTYRHTNEPVIEKASDNEPGIEMQVENLELPVNPSSVVSERISSV

*FIG. 6B*

MDILCEENTSLSSTTNSLMQLNDDNRLYSNDFNSGEANTSDAFNWTVDSENRTNLSCEGCLSPSCL  
SLLHLQEKNEWSALLTAVVILLTIAGNILVIMAVSLEKKLQATNYFLMSLAIADMLLGLVMPVSM  
LTLYGIRWPLPSKLCVWYLDVLSTASIMHLCAISLDYVAIQNPIHHSRFSRSTKAFLKIIAVW  
TISVGISMPIPVFGLQDDSKVFKEGSCLLADDFVLIGSFVSFFIPLTMVITYFLTIVLRQALMLL  
HGHTTEPPGLSDFLKCKCRNTAEENSANPNQDQNAARRRKKKERRPRGTMQAINNERKAS  
KVLGIVFFLVVWCPFFITNMAVICKESCNEVDIGALLNVFVWIGYLSSAVNPLVYTLFNKIYR  
RAFSNYLRCNYKVEKKPPVRQIPRVAATALSGRENLVNTYRHTNEPVIEKASDNEPGIEMQVE  
NLELPVNPSSVVSERISSV

*FIG. 6C*



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*FIG. 6A*

ATGGATAATTCTTTGTGAAGAAAATACTTCTTTGAGCTCAACTACGAACTCCCTAATGCAATTA  
AATGATGACAACAGGCTCTACAGTAATGACTTTAACTCCGGAGAAGCTAACACTTCTGATGCA  
TTAACTGGACAGTCGACTCTGAAAATCGAACCAACCTTTCCTGTGAAGGGTGCTCTCACCG  
TCGTGTCCTCCTTACTTCATCTCAGGAAAAAACTGGTCTGCTTTACTGACAGCCGTAGTGA  
TTATTCTAACTATTGCTGGAACATACTCGTCATCATGGCAGTGTCCCTAGAGAAAAAGCTGC  
AGAATGCCACCAACTATTTCTGATGTCACCTGCCATAGCTGATATGCTGCTGGGTTTCCTTGT  
CATGCCCCGTGTCCATGTTAACCATCCTGTATGGGTACCGGTGGCCTCTGCCGAGCAAGCTTTGT  
GCAGTCTGGATTTACCTGGACGTGCTCTTCTCCACGGCCTCCATCATGCACCTCTGCGCCATCT  
CGCTGGACCGCTACGTGCGCCATCCAGAATCCCATCCACCACAGCCGCTTCAACTCCAGAACTA  
AGGCATTTCTGAAAATCATTGCTGTTTGGACCATATCAGTAGGTATATCCATGCCAATACCAG  
TCTTTGGGCTACAGGACGATTCTGAAGGTCTTTAAGGAGGGGAGTTGCTTACTCGCCGATGATA  
ACTTTGTCTGATCGGCTCTTTTGTGTCATTTTTCATTCCCTTAACCATCATGGTGATCACCTAC  
TTTCTAACTATCAAGGTCTGCGCCCGACAAGCTTTGATGTTACTGCACGGCCACACCGAG  
GAACCGCCTGGACTAAGTCTGGATTTCCTGAAGTGCTGCAAGAGGAATACGGCCGAGGA  
AGAGAACTCTGCAAACCCTAACCAAGACCAGAACGCACGCCGAAGAAAGAAGAAGGAG  
AGACGTCTAGGGGCACCATGCAGGCTATCAACAATGAAAGAAAAGCTTCAAGGTACT  
GGGCATCGTCTTCTTCTGTTTGTGGTGATGTGGTGCCCTTTCTTCATCACAAACATCATGGCC  
GTCATCTGCAAAGAGTCTGCAATGAGGATGTCATTGGGGCCCTGCTCAATGTGTTTGTGTTGG  
ATCGGTTATCTCTCTCAGCAGTCAACCCACTAGTCTATACTCTGTTCAACAAAATTTACCGA  
AGGGCATTCTCCAACCTATTTGCGTTGCAATTATAAGGTAGAGAAAAAGCCTCCTGTCAG  
GCAGATTCCAAGAGTTGCCGCCACTGCTTTGTCTGGGAGGGAGCTTAATGTTAACATTT  
ATCGGCATACCAATGAACCGGTGATCGAGAAAGCCAGTGACAATGAGCCCGGTATAGAG  
ATGCAAGTTGAGAATTTAGAGTTACAGTAAATCCCTCCAGTGTGGTTAGCGAAAGGAT  
TAGCAGTGTGTGA



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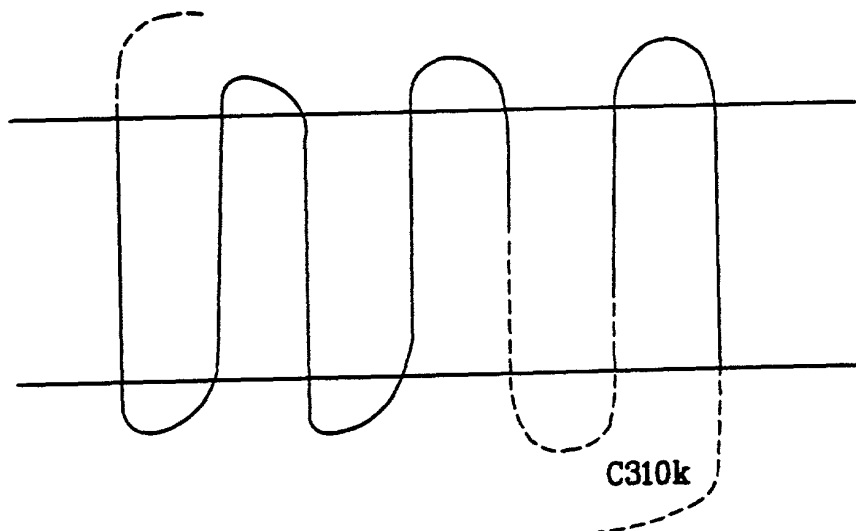
*FIG. 7A*

ATGGATATTCTTTGTGAAGAAAATACTTCTTTGAGCTCAACTACGAACTCCCTAATGCAATTA  
AATGATGACAACAGGCTCTACAGTAATGACTTTAACTCCGGAGAAGCTAACACTTCTGATGCA  
TTTAACTGGACAGTCGACTCTGAAAATCGAACCAACCTTTCCTGTGAAGGGTGCCCTCTCACCG  
TCGTGTCTCTCCTTACTTCATCTCCAGGAAAAAACTGGTCTGCTTTACTGACAGCCGTAGTGA  
TTATTCTAACTATTGCTGGAAACATACTCGTCATCATGGCAGTGTCCCTAGAGAAAAAGCTGC  
AGAATGCCACCAACTATTTCTGATGTCACTTGCCATAGCTGATATGCTGCTGGGTTTCCTTGT  
CATGCCCGTGTCATGTTAACCATCCTGTATGGGTACCGGTGGCCTCTGCCGAGCAAGCTTTGT  
GCAGTCTGGATTTACCTGGACGTGCTCTTCTCCACGGCCTCCATCATGCACCTCTGCGCCATCT  
CGCTGGACCGCTACGTGCGCCATCCAGAATCCCATCCACCACAGCCGCTTCAACTCCAGAACTA  
AGGCATTTCTGAAAATCATTGCTGTTTGGACCATATCAGTAGGTATATCCATGCCAATACCAG  
TCTTTGGGCTACAGGACGATTCGAAGGTCTTTAAGGAGGGGAGTTGCTTACTCGCCGATGATA  
ACTTTGTCTGATCGGCTCTTTTGTGTCATTTTTCATTCCCCTGACGATTATGGTGATTACGT  
ATTGCCTGACCATCTACGTTCTGCGCCGACAAGCTTTGATGTTACTGCACGGCCACACC  
GAGGAACCGCCTGGACTAAGTCTGGATTTCTGAAGTGCTGCAAGAGGAATACGGCCGA  
GGAAGAGAACTCTGCAAAACCTAACCAAGACCAGAACGCACGCCGAAGAAAGAAGAAG  
GAGAGACGTCTAGGGGCACCATGCAGGCTATCAACAATGAAAGAAAAGCTAAGAAAAGT  
CCTTGGGATTGTTTCTTTGTGTTTCTGATCATGTGGTGCCCTTTCTTCATCACAAACATCA  
TGGCCGTCATCTGCAAAGAGTCTGCAATGAGGATGTCATTGGGGCCCTGCTCAATGTGTTTG  
TTTGATCGGTTATCTCTCTTCAGCAGTCAACCCACTAGTCTATACTCTGTTCAACAAAATTT  
ACCGAAGGGCATTCTCCAACCTATTGCGTTGCAATTATAAGGTAGAGAAAAAGCCTCCT  
GTCAGGCAGATTCCAAGAGTTGCCGCCACTGCTTTGTCTGGGAGGGAGCTTAATGTTAA  
CATTTATCGGCATACCAATGAACCGGTGATCGAGAAAGCCAGTGACAATGAGCCCGGTA  
TAGAGATGCAAGTTGAGAATTTAGAGTTACCAGTAAATCCCTCCAGTGTGGTTAGCGAA  
AGGATTAGCAGTGTGTGA

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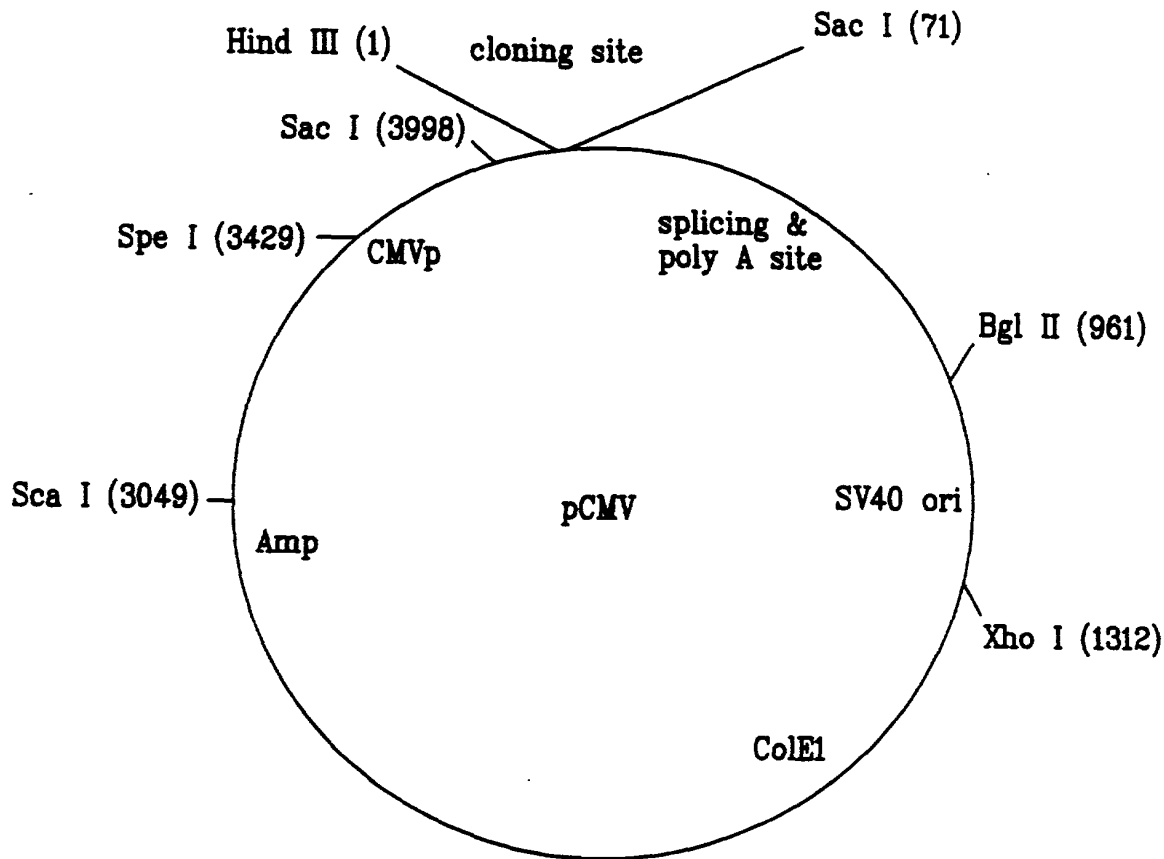
*FIG. 7B*

MDILCEENTSLSSTTNSLMQLNDDNRLYSNDFNSGEANTSDAFNWTVDSNRNTLSCEGCCLSPSCL  
SLLHLQEKNWSALLTAVVILTIAGNILVIMAVSLEKKLQNAATNYFLMSLAADMLLGFLVMPVSM  
LTILYGYRWPLPSKLCVWYILDVLFSTASIMHLCASLDRYVAIQNPIHRSFNSRRTKAFLKIIAVW  
TISVGISMPIPVFGLQDDSKVFKEGSCILADDNFVLIGSFVSFFIPLTMVTTYCLTIYVLRQALML  
LHGHTEPPGLSLDFLKCCCKRNTAAEEENSANPNQDONARRRKKKERRPRGTMQAINNERKA  
KKVLGIVFFVFLMWCPFFITNMAVICKESCNEVDIGALLNVFVWIGYLSSAVNPLVYTLENKIY  
RRAFSNYLRNYKVEKKPPVROIPRVAATLSGRELVNVIYRHTNEPVIEKASDNEPGIEMOV  
ENLELPVNPSSVWSEISSY



*FIG. 7C*

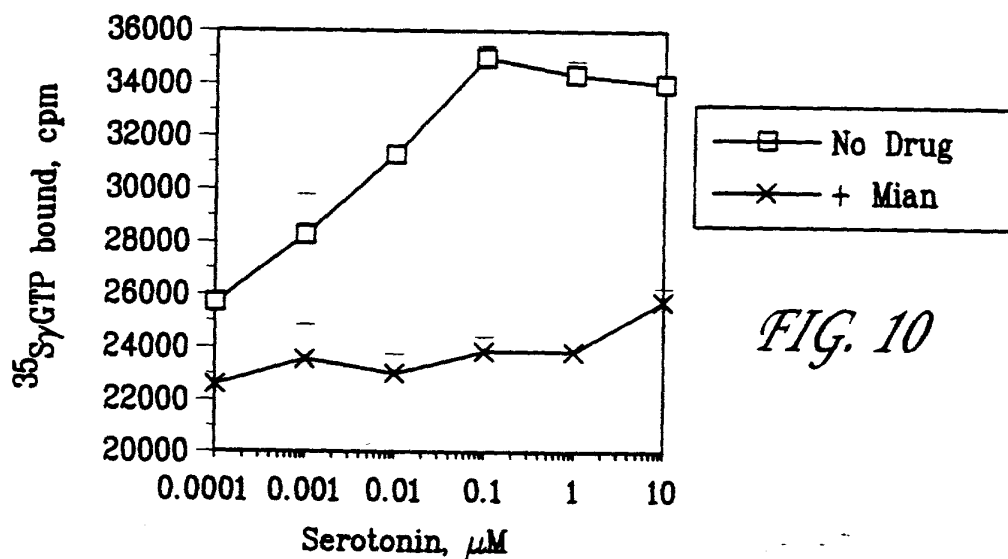
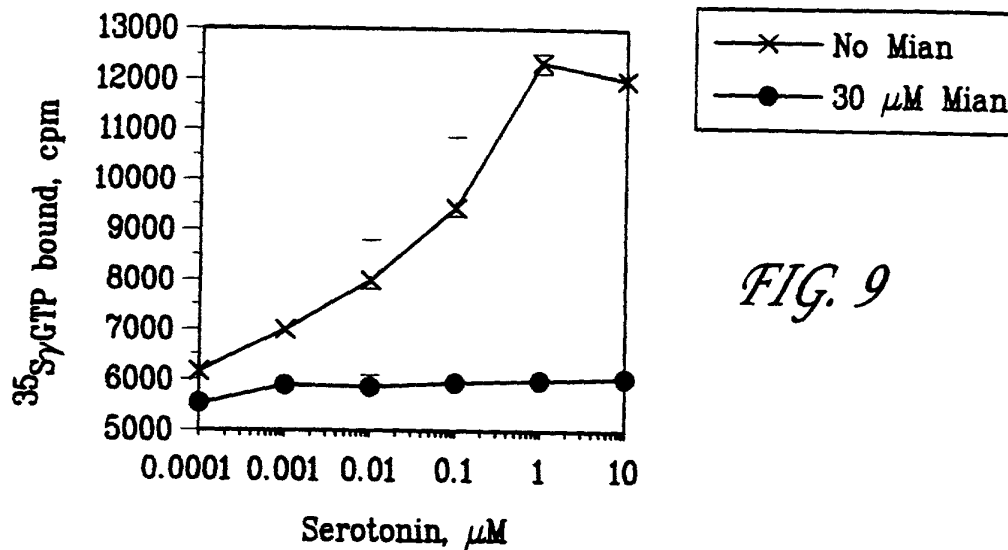
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- \*Xho I (1312) to Sca I (3049) is identical to pRc/RSV Xho I (3045) to 4782.
- \*Sca I (3049) to 4070 is identical to pCDM7 Amp Scal (2524) to 3545.
- \*multiple cloning site includes Hind III to Sac I of pBluescript II
- \*110 to 1312 is identical to pCMD7 Amp 76 to 1278.
- \*Sac I and Spe I in MCS are not unique.

*FIG. 8*

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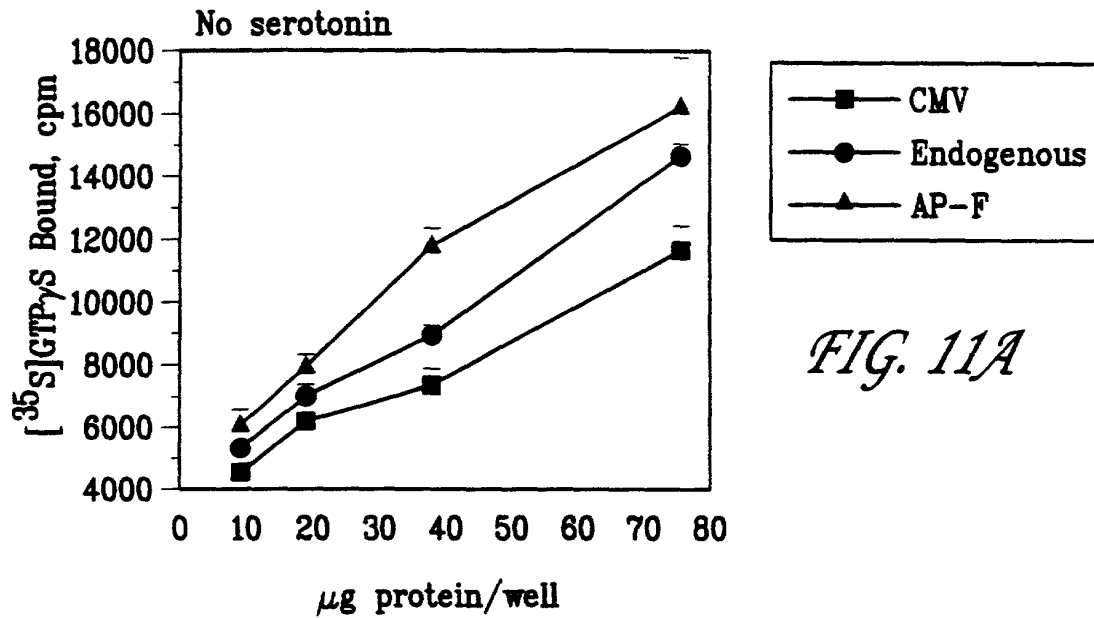


FIG. 11A

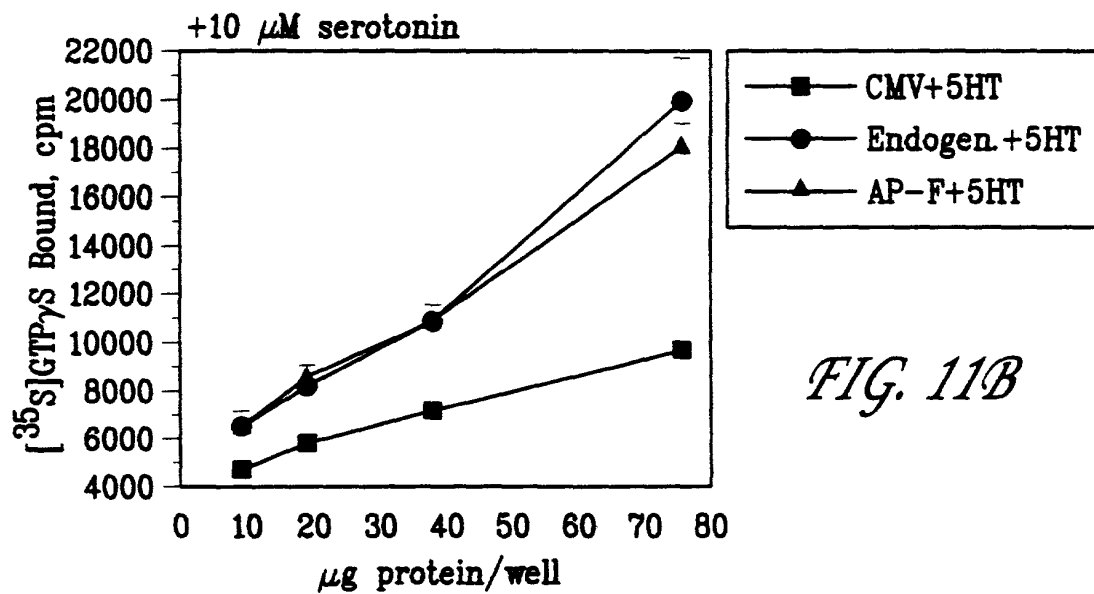
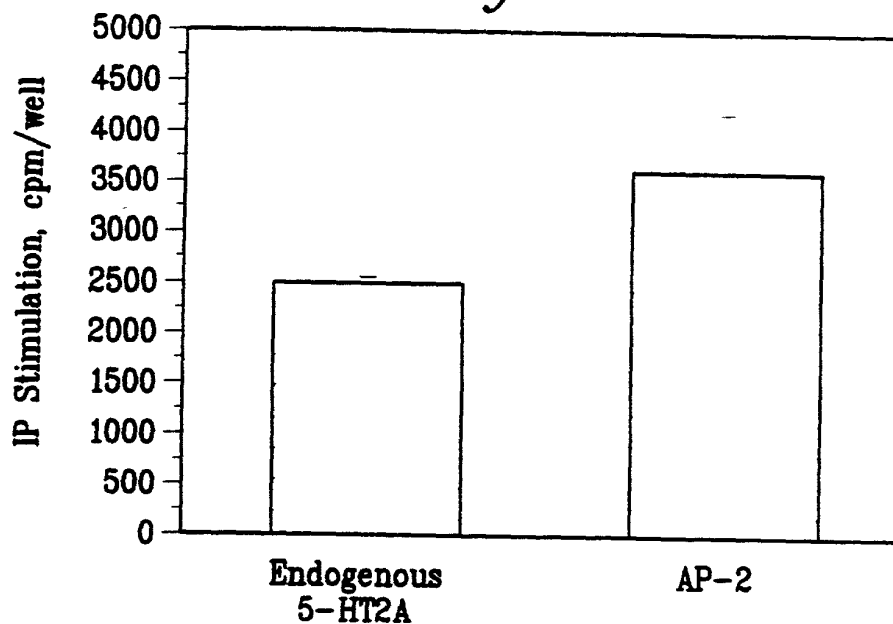


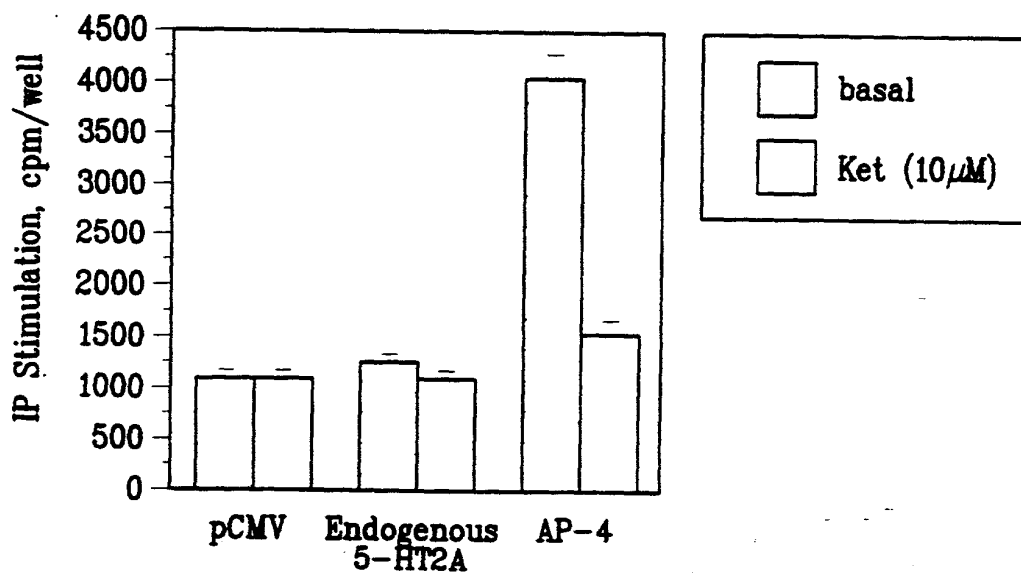
FIG. 11B

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*FIG. 12*



*FIG. 13*



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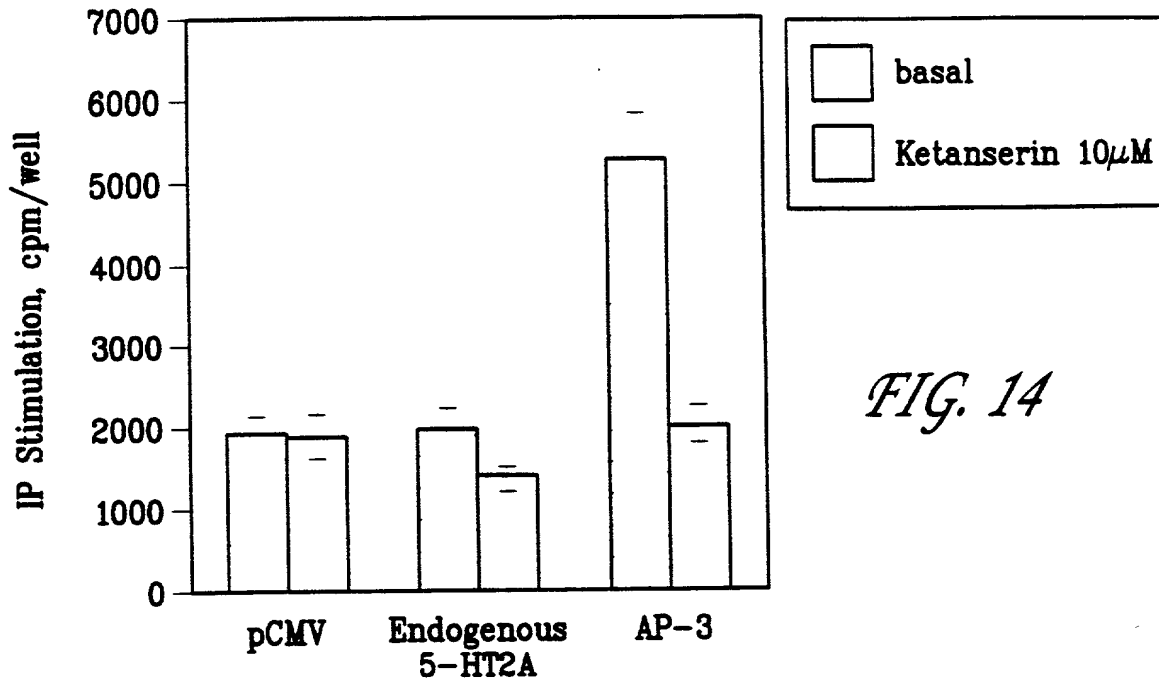
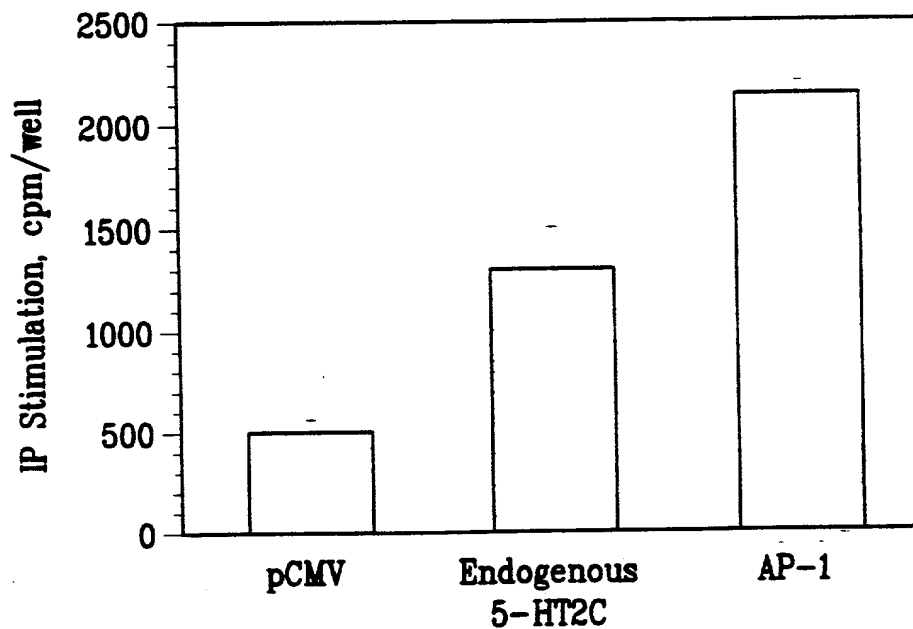


FIG. 14

FIG. 15

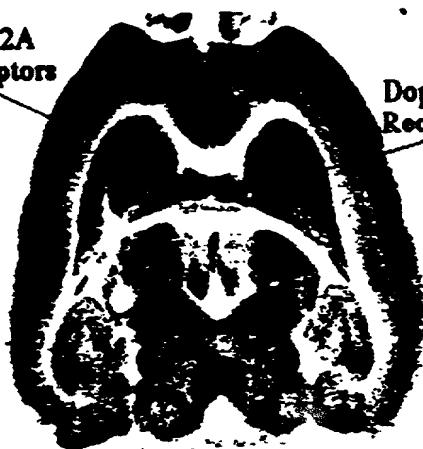


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5-HT<sub>2A</sub>  
Receptors

Dopamine D<sub>2</sub>  
Receptors

*FIG. 16A*



*FIG. 16B*

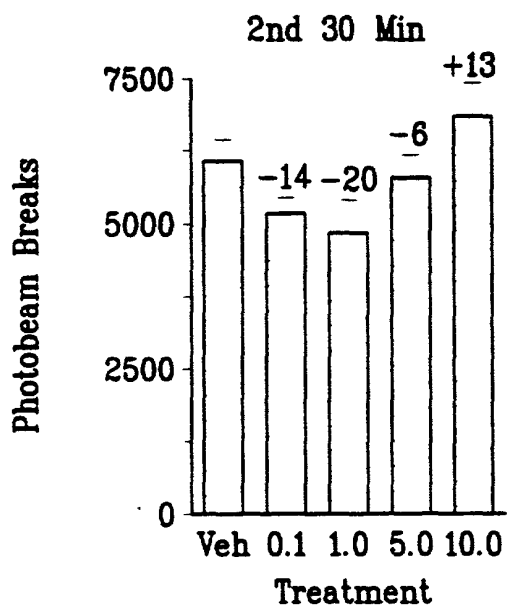
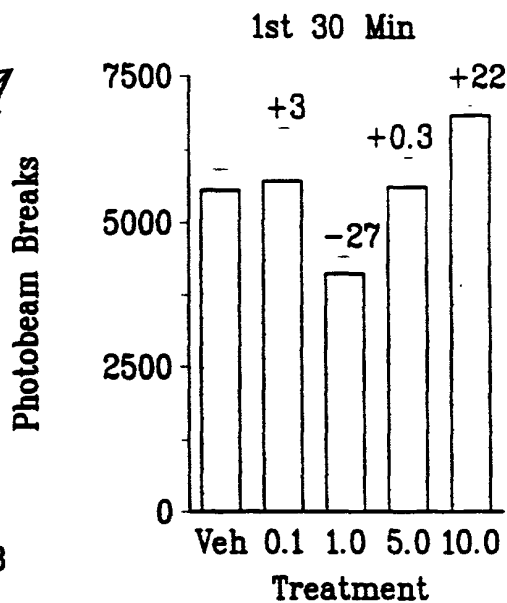


*FIG. 16C*

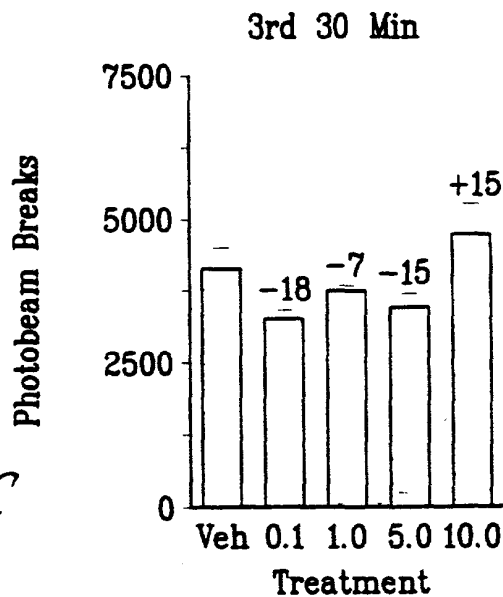


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*FIG. 17A*



*FIG. 17B*



*FIG. 17C*